CLAIMS

What is claimed is:

A method of separating a sample containing blood cells into a cell containing portion and a substantially cell depleted portion, comprising: receiving the sample in a vessel;

ملو

combining the sample, an additive, and a plurality of particles, each of the additive, the particles and the cells having a substantial binding to another of the additive, the particles and the cells to produce a cell containing network; and

separating the network from the substantially cell depleted portion at least in part using a magnetic force.

- 2. The method of claim 1 wherein the sample received in the vessel has a volume of more than about 3 ml.
- 3. The method of claim 1 wherein the sample received in the vessel has a volume of less than about 1 ml.

74. The method of claim 1 wherein the vessel has at least one flexible wall.

- 5. The method of claim 1 wherein the vessel has multiple samples wells.
 - The method of claim 1 wherein the particles having a mean volume of between about 5×10^{-24} m³ to about 5×10^{-6} m³.

The method of claim 1 wherein the substantial binding of the particles results at least in part from the particles having a coating.

- 8. The method of claim 7 wherein the coating comprises an anti-ligand.
- 9. The method of claim 7 wherein the coating comprises an antibody.

0. The method of claim 7 where the coating comprises a polymer.

6.

and 10.

- 11. The method of claim 1 wherein the substantial binding of the additive results at least in part from the additive comprising an anti-ligand.
- 12. The method of claim I wherein the network comprises a primary and a secondary antibody, where the primary antibody has a substantial binding to the surface component of the cells and the secondary antibody has a substantial binding to the primary antibody.
- 13. The method of claim any of claims 1—12 wherein the cells predominantly comprise red blood cells.
 - 4. The method of claim any of claims 1 12 wherein the sample includes white blood cells and platelets.
- 15. The method of any of claims 1 12, further comprising measuring PSA.
- The method of any of claims 1 12 wherein at least 70% by volume of the theoretically available cell depleted portion is separated from the network within ten minutes.
- The method of any of claims 1 12 wherein separating the network produces a separation efficiency of at least 70%.
- The method of any of claims 1 12 wherein separating the network produces a separation efficiency of at least 80%.
- The method of any of claims 1 12 wherein separating the network produces a separation efficiency of at least 90%.
- The method of any of claims 1—12 wherein at least 90% by volume of the theoretically available cell depleted portion is separated from the network within ten minutes, with a separation efficiency of at least 95%.